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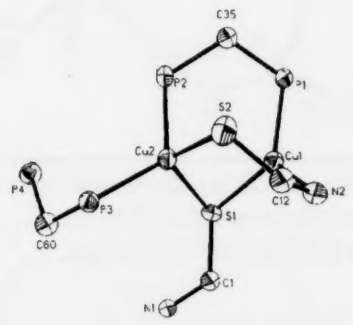
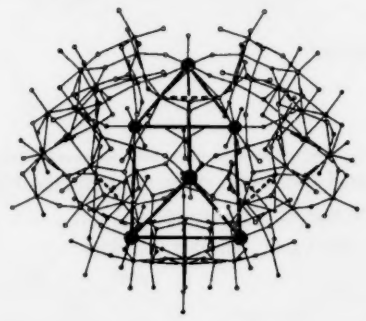
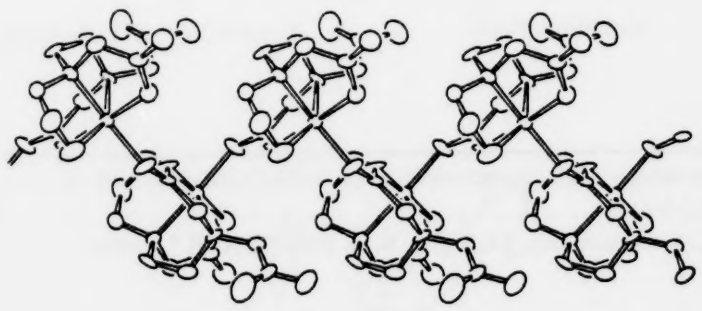
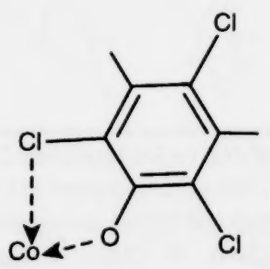
Complexes of copper(I), silver(I), nickel(II) and cadmium(II) with 6-tert-butyldimethylsilylpyridine-2-thionate (6-Bu^{t}SidmepyS$^-$): crystal structure of [Cu_2(6-Bu^{t}SidmepyS)$_2$-dppm$_2$] ..... P. Pérez-Lourido, J.A. García-Vázquez, J. Romero, M.S. Louro, A. Sousa, J. Zubieta	1	
Stepwise substituting magnetic centres in a giant cluster host system ..... A. Müller, W. Plass, E. Krickemeyer, R. Sessoli, D. Gatteschi, J. Meyer, H. Bögge, M. Kröckel, A.X. Trautwein	9	
Syntheses and properties of bivalent metal complexes with *N*-(2-hydroxyethyl)ethylenediamine-*N*,*N*′,*N*′-triacetic acid and the crystal structure of *N*-(2-hydroxyethyl)ethylenediamine-*N*,*N*′,*N*′-triacetato-copper(II) monohydrate ..... M. Akazawa, Y. Inomata, T. Takeuchi, F.S. Howell	13	
Transition metal compounds of chlorophenols: synthesis, characterization and single-crystal X-ray structures of (*N*,*N*,*N*′,*N*′-tetramethylethylenediamine)bis(2,4,6-trichlorophenolato)cobalt(II) and bis(*N*-methylimidazole)bis(2,6-dichlorophenolato)copper(II) ..... M. Baştürkmen, D. Kısakürek, W. Driessen, S. Gorter, J. Reedijk	19	

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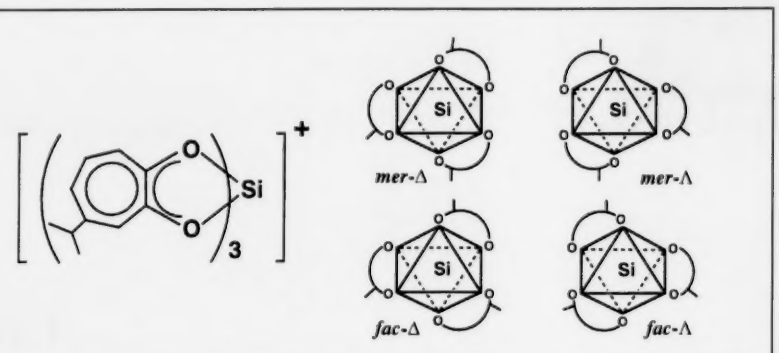
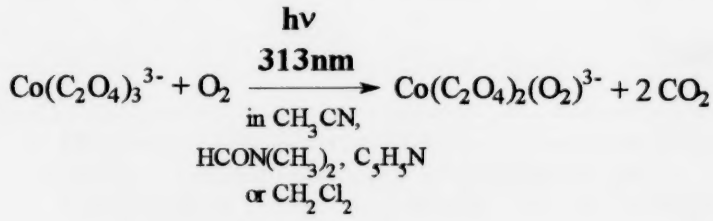
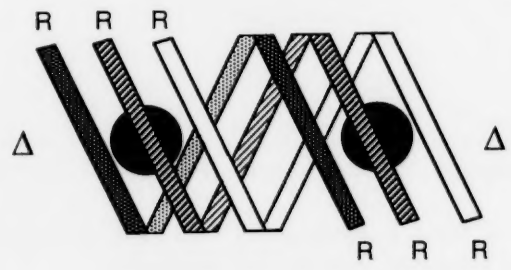
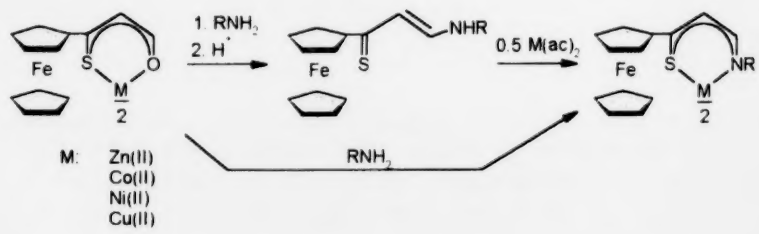
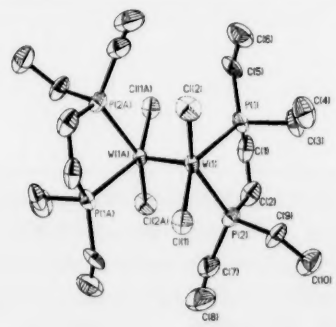
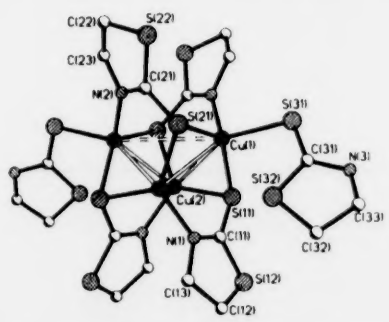
Stereochemistry of six-coordinated silicon complexes V. Racemization and geometrical isomerization of tris(4-isopropyltropolonato)silicon(IV) ..... 24 S. Azuma, M. Kojima, Y. Yoshikawa	
Alternative reaction path for the photochemical reaction of tris(oxalato)cobaltate(III) in various aprotic solvents in the presence of oxygen..... 29 M. Joosten, J. D'Olieslager	
Dinuclear metal complexes of Cd(II), Zn(II) and Fe(II) with triple-helical structure and predetermined chirality..... 36 H. Mürner, A. von Zelewsky, G. Hopfgartner	
3-Ferrocene-substituted 3-mercaptopropenales and their Schiff bases as ligands for transition metal complexes ..... 40 O. Seidelmann, L. Beyer, R. Richter, T. Herr	
The synthesis and characterization of α-$Re_2Cl_4(depe)_2$ and α-$W_2Cl_4(depe)_2$ ..... 49 K.M. Carlson-Day, J.L. Eglin, K.M. Huntington, R.J. Staples	
[Cyclo{tetrakis-μ_3(η^2-S,η^1-N)-(1,3-thiazolidine-2-thionato)-bis-(η^1-S)-(1,3-thiazolidine-2-thione)tetracopper(I)}]: electrochemical synthesis, characterisation and crystal structure at 160 K ..... 57 E.S. Raper, J.R. Creighton, W. Clegg, L. Cucurull-Sanchez, M.N. Stuart Hill, P.D. Akrivos	

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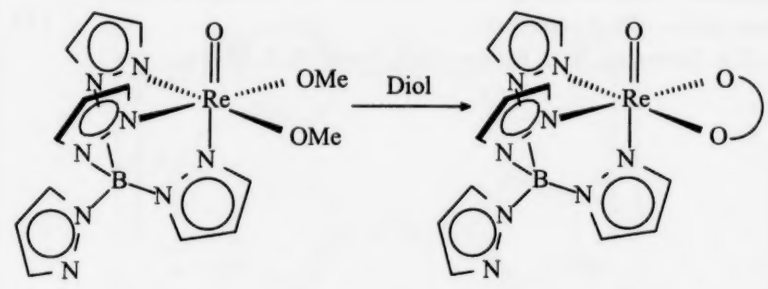

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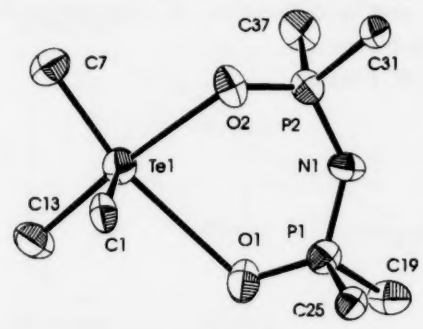

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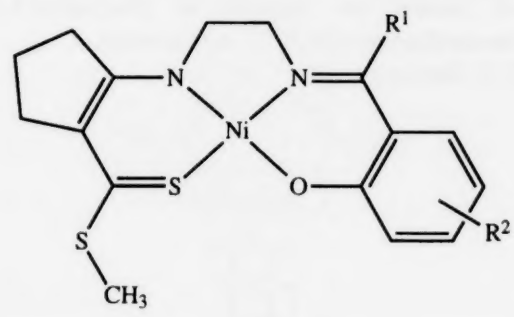

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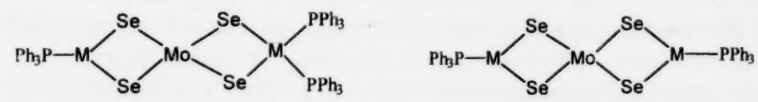

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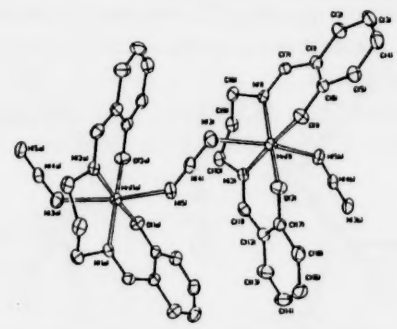

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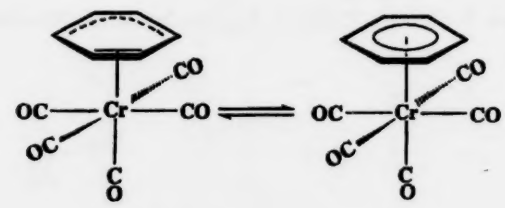
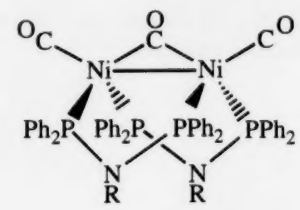
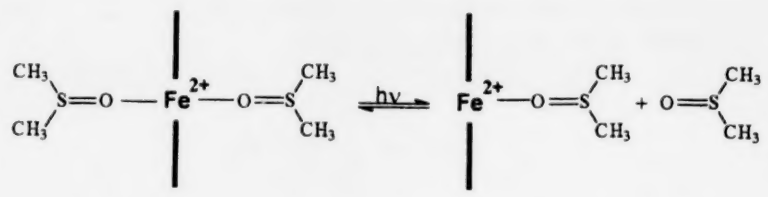
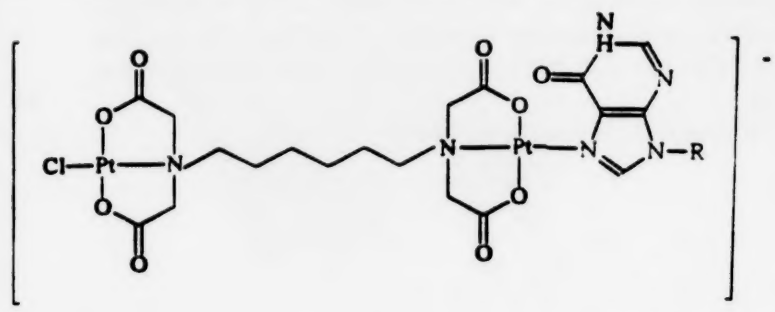
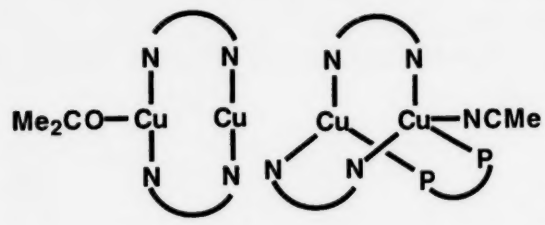
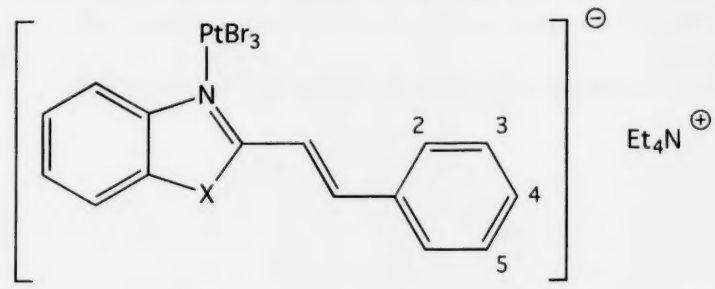
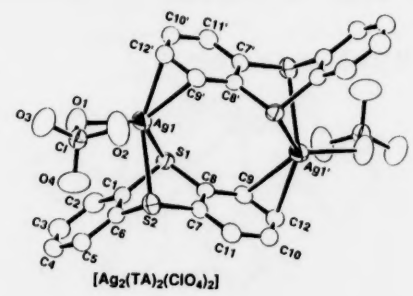


Synthesis, characterization and reactivity of bis(diphenylphosphino)amine nickel complexes ..... 112 C.S. Browning, R.A. Burrow, D.H. Farrar, H.A. Mirza	
Ligand photolysis and recombination of (dimethylsulfoxide)$_2$-Fe(II)porphyrin complexes ..... 119 R.W. Larsen, E.W. Findsen	
Substitution of inosine for chloride in $[Pt_2(hdta)Cl_2]^{2-}$ ($hdta^{4-}$ = 1,6-hexanediamine-*N*,*N*,*N*′,*N*′-tetraacetate) ..... 124 F.-T. Lin, R.E. Shepherd	
Synthesis and crystal structure of two ternary dicopper(I) complexes having the unsymmetrical coordination arrangement bridged by 1,8-naphthyridine (napy). $[Cu_2(napy)_2(Me_2CO)](PF_6)_2 \cdot 2Me_2CO$ and $[Cu_2(napy)_2(dppm)(CH_3CN)](PF_6)_2$ ..... 129 M. Maekawa, M. Munakata, S. Kitagawa, T. Kuroda-Sowa, Y. Suenaga, M. Yamamoto	
Cytotoxic anionic tribromo platinum(II) complexes containing benzothiazole and benzoxazole donors: synthesis, characterization, and structure–activity correlation ..... 137 C.M. Lozano, O. Cox, M.M. Muir, J.D. Morales, J.L. Rodríguez-Cabán, P.E. Vivas-Mejía, F.A. Gonzalez	
Synthesis and structure of a novel bis(μ-η^2-thianthrene)disilver(I) bis(perchlorate) ..... 145 M. Munakata, S.-G. Yan, I. Ino, T. Kuroda-Sowa, M. Maekawa, Y. Suenaga	

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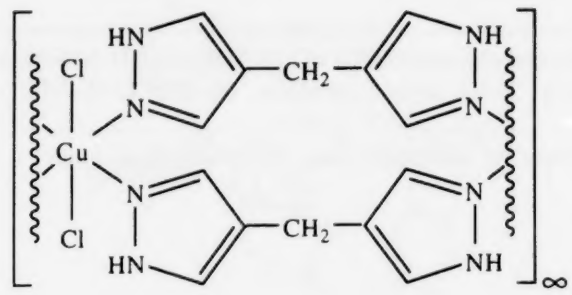

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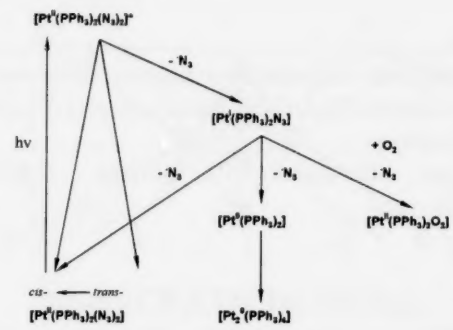

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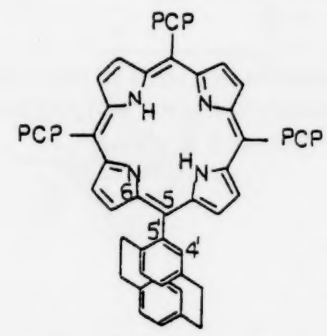

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$[Mo^{V}O(O_2CC(S)CH_3Ph)_2]^- + (NO_3^- \text{ or } NO_2^-) \rightarrow [Mo^{VI}O_2(O_2CC(S)CH_3Ph)_2]^{2-} + (NO_2 \text{ or } NO)$ (2)

$RSH + (NO_3^- \text{ or } NO_2^-) + H^+ \longrightarrow 1/2\ (RS)_2 + (NO_2 \text{ or } NO) + H_2O$ (3)

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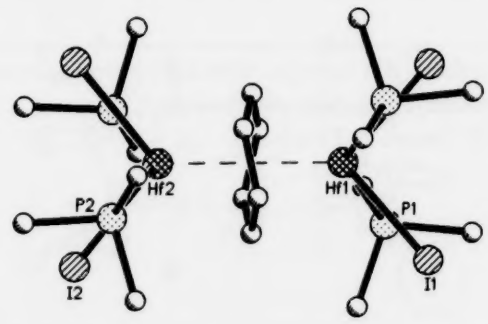

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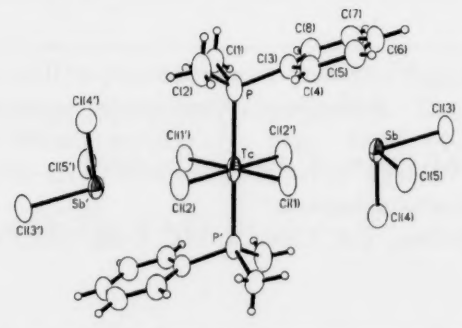

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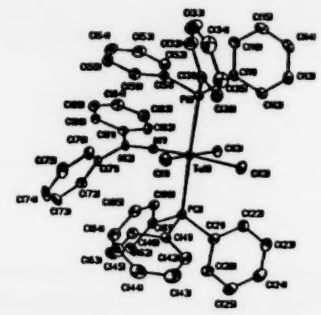
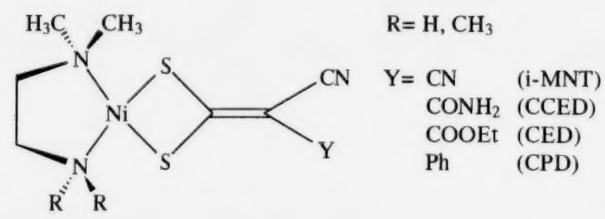
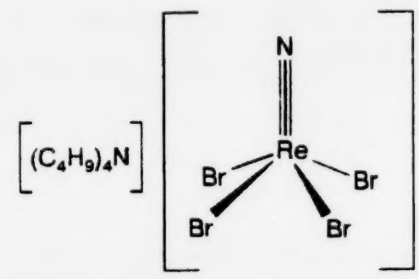
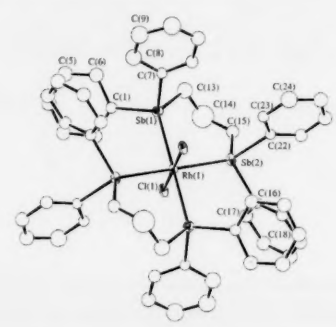
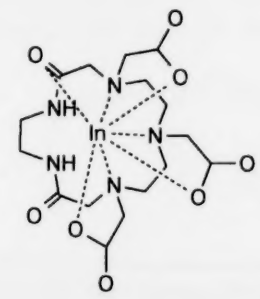
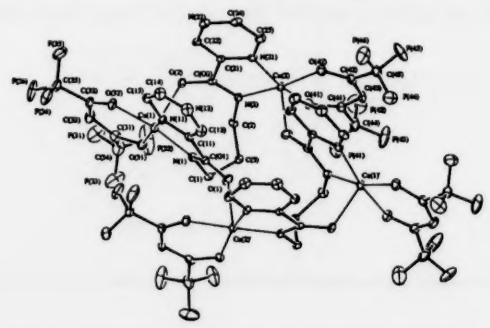
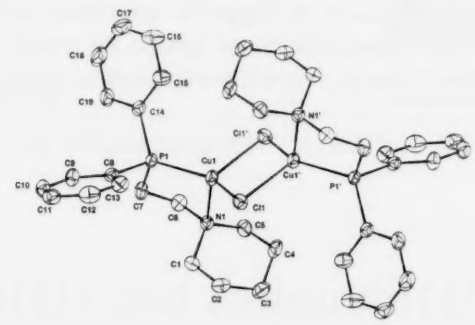
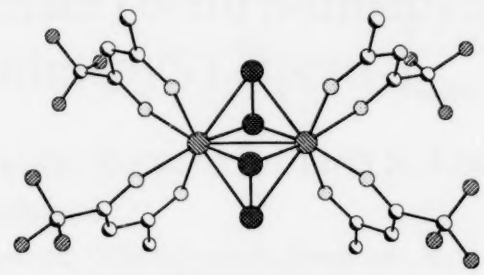
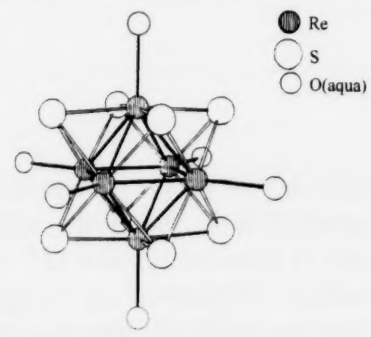
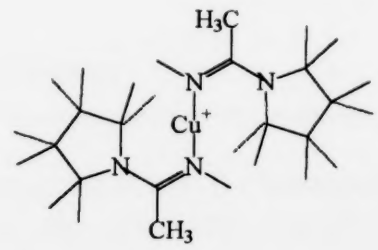
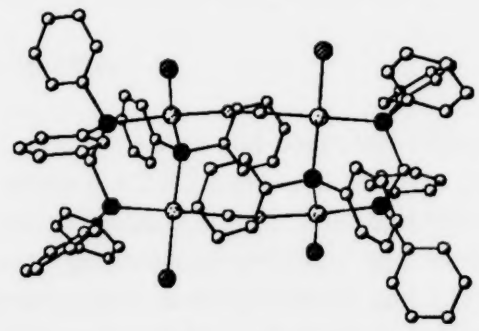
The synthesis and characterization of a technetium(III) isodiazene complex. The X-ray crystal structure of $[TcCl_3(N{=}NPh_2)(PPh_3)_2]$ ..... 191 T. Nicholson, M. Hirsch-Kuchma, A. Davison, A.G. Jones	
Nickel(II) 1,1-dithiolates and related complexes. Solid-state and solution structural evidence for mixed-ligand complexes with substituted ethylenediamines ..... 195 C.C. Hadjikostas, H. Alkam, P.D. Akrivos, E.S. Raper, J.R. Creighton	
An electron paramagnetic resonance study of tetra-*n*-butylammoniumtetrabromo-nitridorhenate(VI), $[(n\text{-}C_4H_9)_4N][ReNBr_4]$ ..... 199 A. Voigt, U. Abram, P. Strauch, R. Kirmse	
Rhodium(III) ditertiary stibine complexes ..... 203 A.M. Hill, W. Levason, M. Webster	
Structure of an indium(III) complex with a 15-membered macrocycle, dioxopentaazacyclopentadecanetriacetate ..... 207 M.B. Inoue, M. Inoue, Q. Fernando	
Ligand behaviour of a bis-pyrazinecarboxamide copper(II) complex towards a copper(II) β-diketonate. X-ray crystal structures of $[Cu(bpzpn)(H_2O)]\cdot 3H_2O$ and $[Cu(bpzpn)Cu(hfacac)_2]_2$ (H_2bpzpn = *N*,*N*′-bis(2′-pyrazinecarboxamide)-1,3-propane, Hhfacac = hexafluoroacetylacetone) ..... 210 A. Challita-Bechara, G.C. Chiumia, D.C. Craig, D.J. Phillips, A.D. Rae	

Synthesis and physical studies of copper(I) complexes with the ambidentate ligand (1-piperidyl-2-diphenylphosphino)ethane. X-ray structural characterization of a copper(I) dimer ..... 217 R. Turpin, N. Bruno, J.-P. Legros, P. Castan	
Synthesis of a new series of Nb(IV) β-diketonates with the $Nb_2S_4^{4+}$ core: crystal structure of $Nb_2S_4(CF_3COCHCOCH_3)_4$ ..... 222 M. Sokolov, O. Gerasko, A. Virovets, V. Fedorov, K. Hegetschweiler	 **$Nb_2S_4(CF_3COCHCOCH_3)_4$**
Synthesis of the first sulfido-bridged octahedral rhenium(III) aqua ion $[Re_6S_8(H_2O)_6]$ ..... 228 V.P. Fedin, A.A. Virovets, A.G. Sykes	 Re S O(aqua)
Crystal structure and ^{63}Cu NQR of bis([1-aza-2-(1-pyrrolidinyl)]-copper(I) chloride and bromide..... 231 F. Khajehnouri, N. Amstutz, E.A.C. Lucken, G. Bernardinelli	 **$Cu(C_6H_{12}N_2)_2^+ X^-$** **X = Cl, Br** **Structure; NQR Cu** **No Cu-X interaction**
An unusual cyanide-bridged extended A-frame complex: the molecular structure of $[\{Pd_2Br_2(\mu\text{-}PPh_2)(\mu\text{-dppm})\}_2(\mu\text{-}CN)_2]$ ..... 236 R.A. Stockland, Jr., G.K. Anderson, N.P. Rath	
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Synthesis and characterization of copper(I) complexes with triphenylphosphine and heterocyclic thione ligands: the crystal structure of (thiazolidine-2-thione)(bis-triphenylphosphine) copper(I) chloride 243
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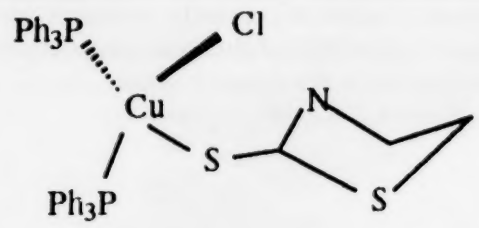

[Cu(PPh$_3$)$_2$(tzdtH)Cl]

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